KEY

NAME   DATE   PERIOD

/7

Unit 2, Lesson 4: Color Mixtures

1. Here is a diagram showing a mixture of red paint and green paint needed for 1 batch of a particular shade of brown.

red paint (cups)   R R R   R R R   R R R

green paint (cups)   G G   G G   G G

/1

Add to the diagram so that it shows 3 batches of the same shade of brown paint.

2. Diego makes green paint by mixing 10 tablespoons of yellow paint and 2 tablespoons of blue paint. Which of these mixtures produce the same shade of green paint as Diego's mixture? Select **all** that apply.

$$\frac{Y}{10} \quad \frac{B}{2}$$
$$5 \quad 1$$

A. For every 5 tablespoons of blue paint, mix in 1 tablespoon of yellow paint.   **NO**

B. Mix tablespoons of blue paint and yellow paint in the ratio 1 : 5.   **Yes**   (1 ... 6)

C. Mix tablespoons of yellow paint and blue paint in the ratio 15 to 3.   **Yes** $3 \times 5 = 15$ (5 ... 3)

D. Mix 11 tablespoons of yellow paint and 3 tablespoons of blue paint.   **No** $3 \times 5 \neq 11$

/4

3. To make 1 batch of sky blue paint, Clare mixes 2 cups of blue paint with 1 gallon of white paint.

B B
W

a. Explain how Clare can make 2 batches of sky blue paint.   4 Cups Blue   2 Cups White

b. Explain how to make a mixture that is a darker shade of blue than the sky blue.   Either add more blue or less white

c. Explain how to make a mixture that is a lighter shade of blue than the sky blue.   Either add less blue or more white

/3

4. A smoothie recipe calls for 3 cups of milk, 2 frozen bananas and 1 tablespoon of chocolate syrup.

a. Create a diagram to represent the quantities of each ingredient in the recipe.

O O O   3
⌣ ⌣   2
□   1

/2

1) For every 1 tablespoon of chocolate I need 3 cups of milk.

2) The ratio of banana to chocolate is 2 to 1.
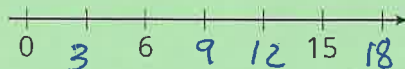
b. Write 3 different sentences that use a ratio to describe the recipe.

See front

(from Unit 2, Lesson 2)

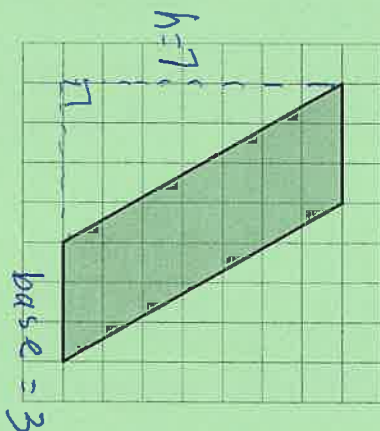5. Write the missing number under each tick mark on the number line.

$$\begin{array}{ccccccc} 0 & 3 & 6 & 9 & 12 & 15 & 18 \end{array}$$

(from Unit 2, Lesson 1)

6. Find the area of the parallelogram. Show your reasoning.

$A = 3 \cdot 7 = 21 \, un^2$

DON'T divide by 2

h = 7

base = 3

(from Unit 1, Lesson 4)

7. Complete each equation with a number that makes it true.

a. $11 \cdot \frac{1}{4} = \dfrac{11}{4}$

b. $7 \cdot \frac{1}{4} = \dfrac{7}{4}$

c. $13 \cdot \frac{1}{27} = \dfrac{13}{27}$

d. $13 \cdot \frac{1}{99} = \dfrac{13}{99}$

e. $x \cdot \frac{1}{y} = \dfrac{x}{y}$
(As long as y does not equal 0.)

/5

(from Unit 2, Lesson 1)